

UDP/IP

TCP/IP

1007

UDP

TCP

NR

102-

ر52

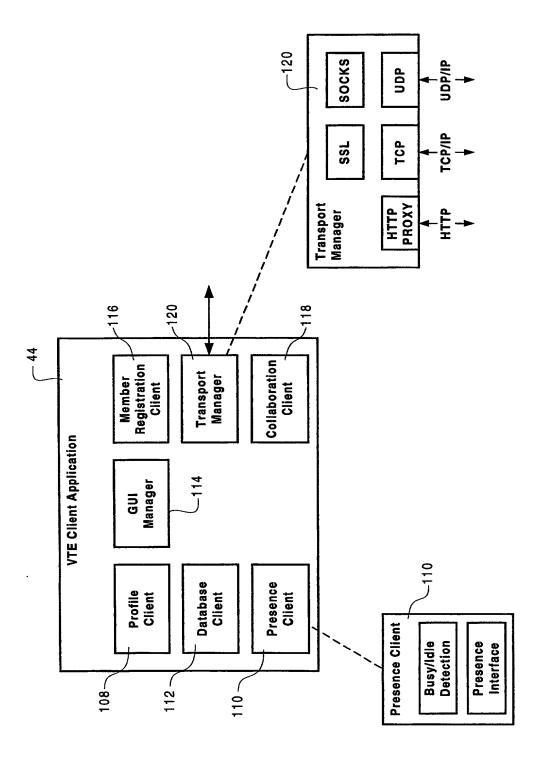
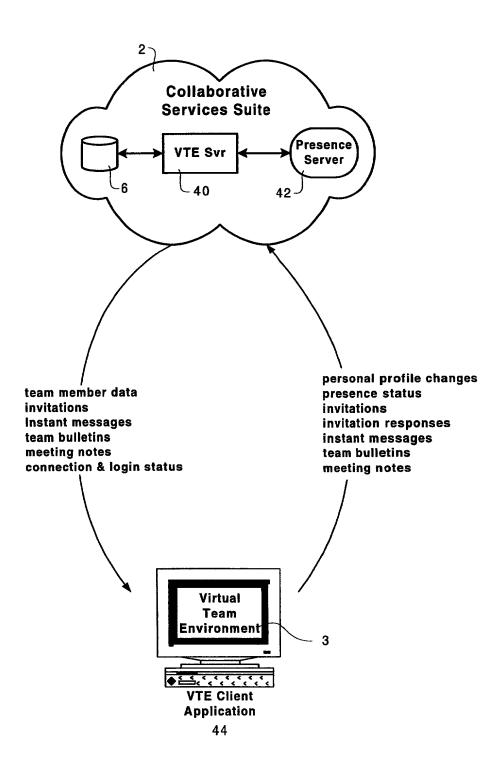


FIG. 6

FIG. 7





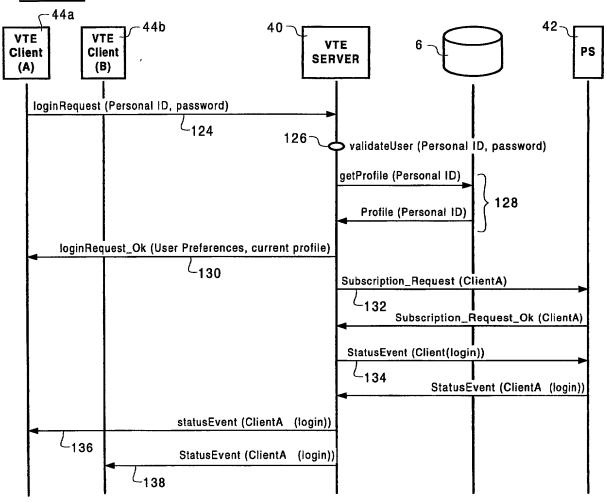


FIG. 9

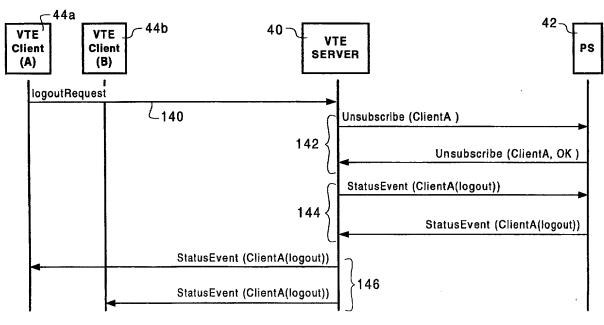
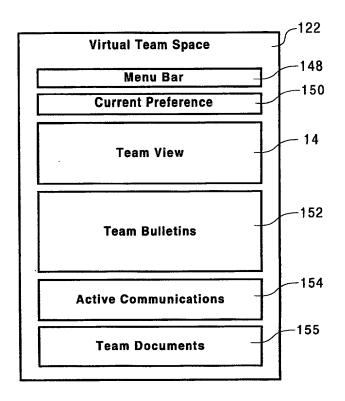


FIG. 10



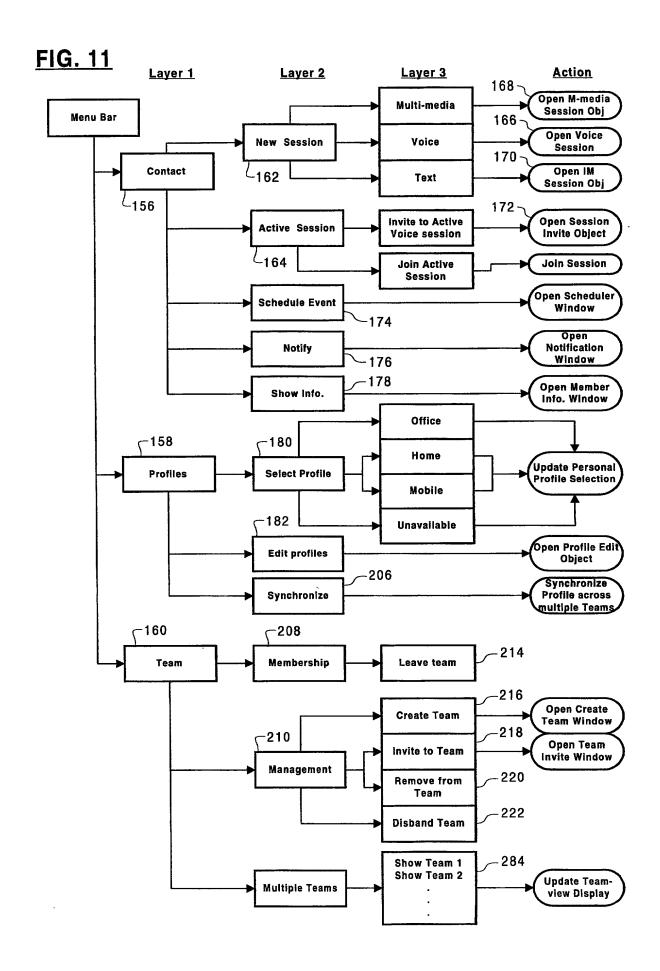


FIG. 12

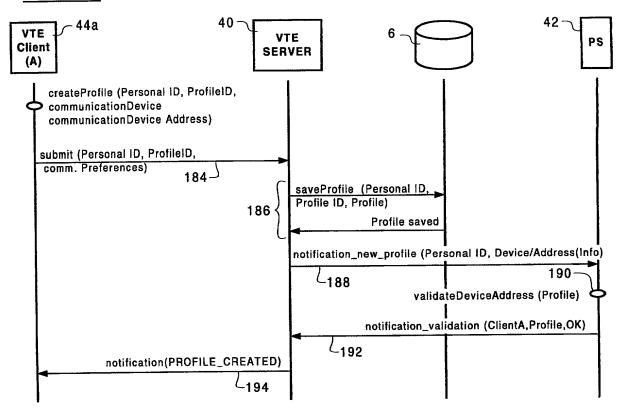
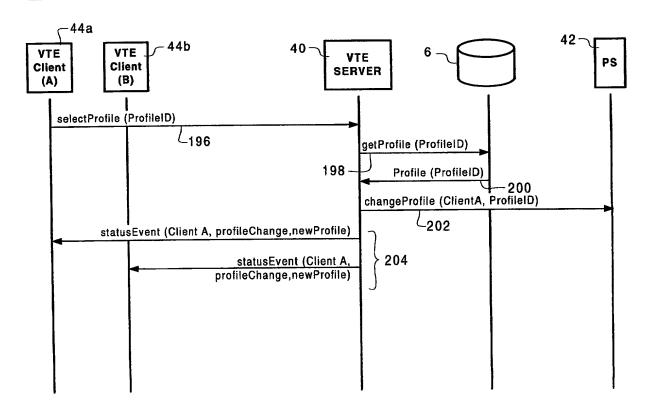


FIG. 13



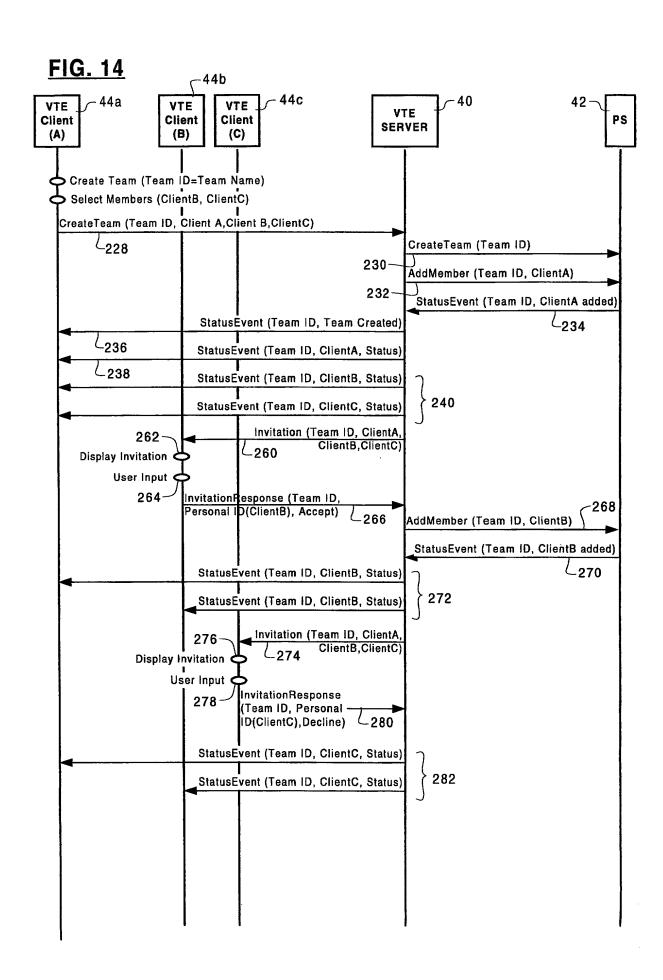


FIG. 15

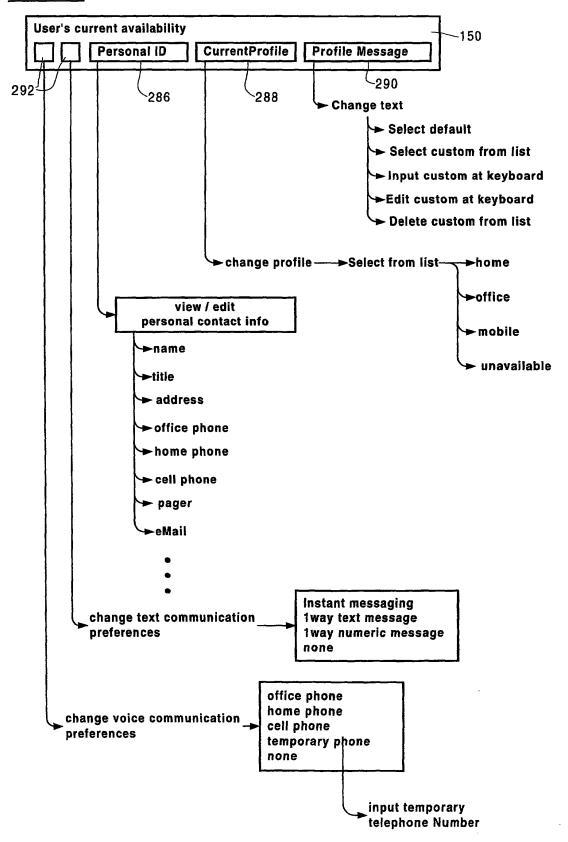


FIG. 16

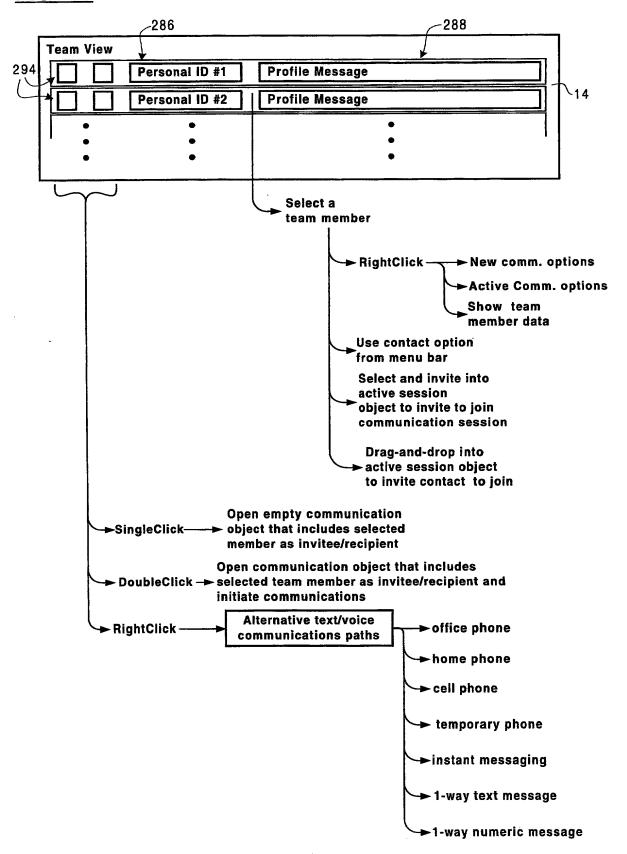
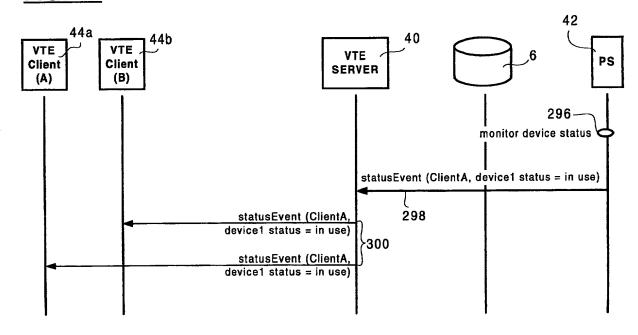


FIG. 17



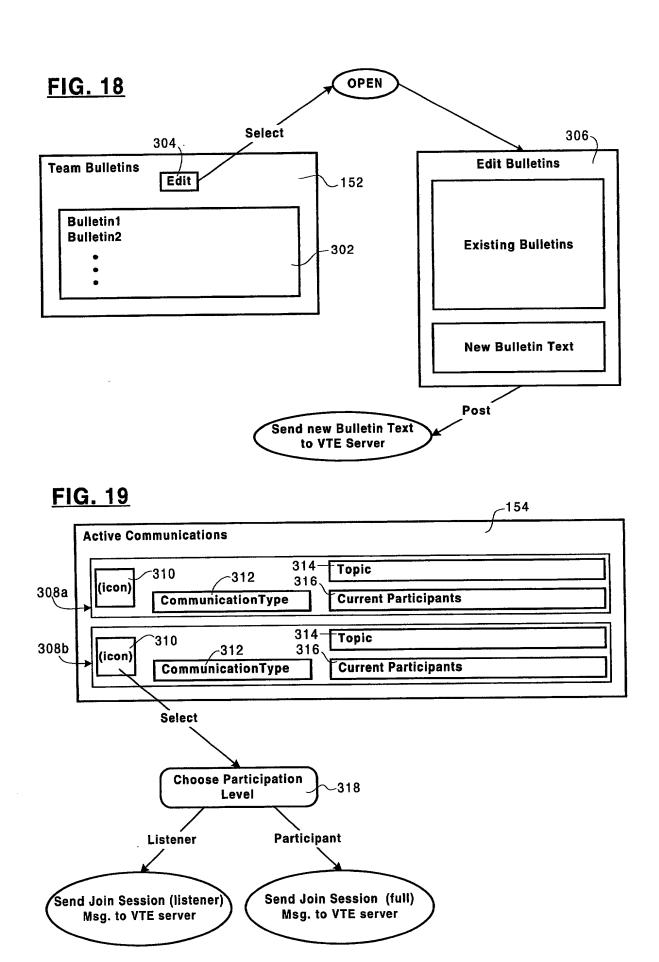
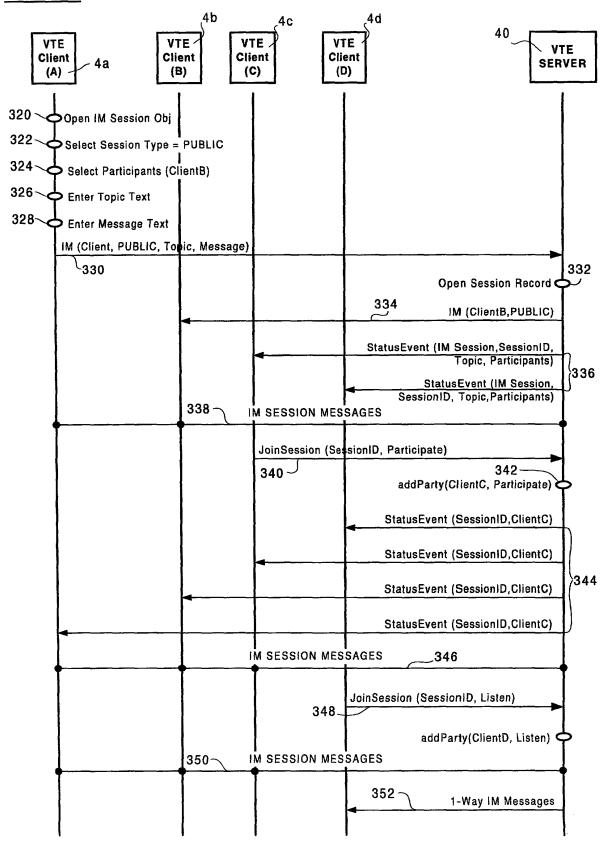
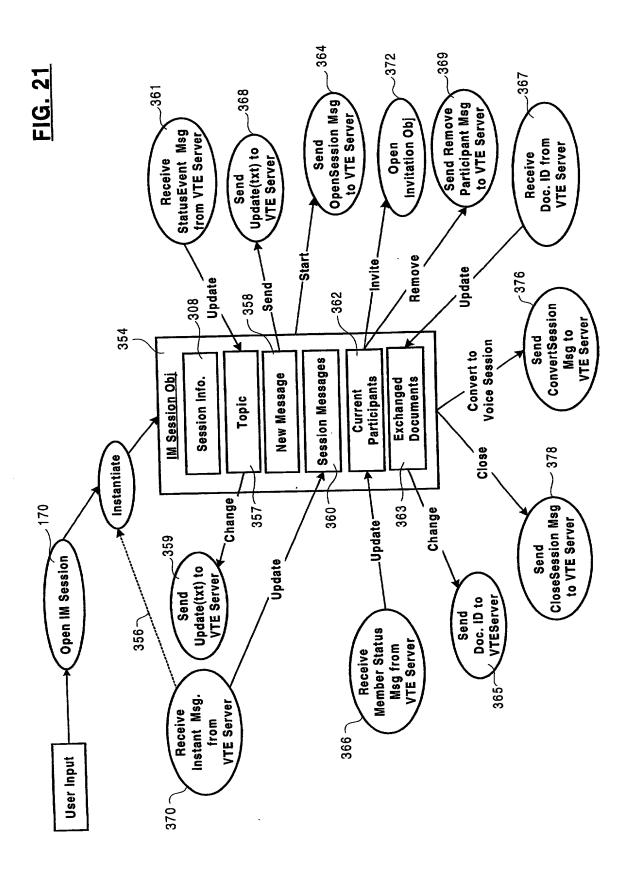
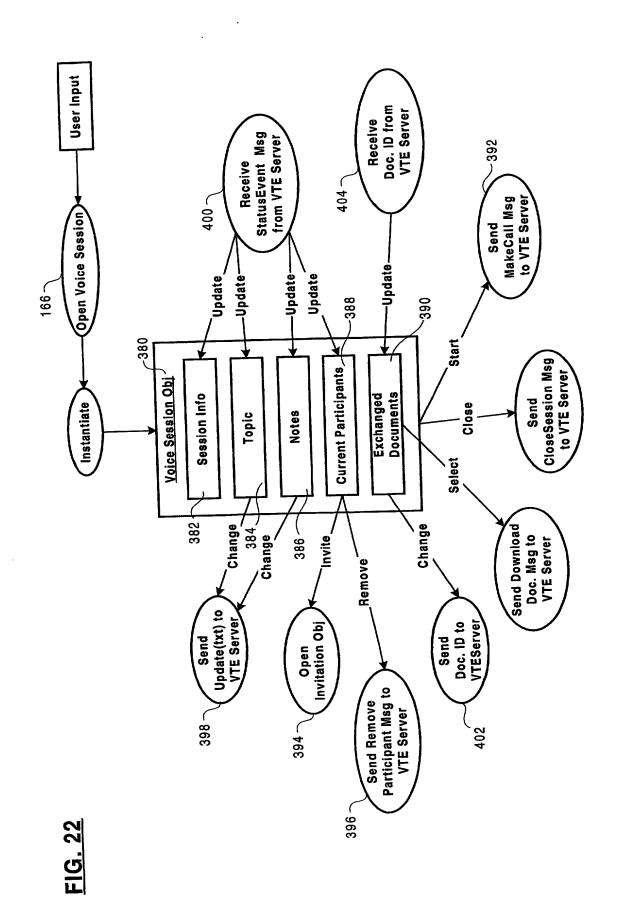
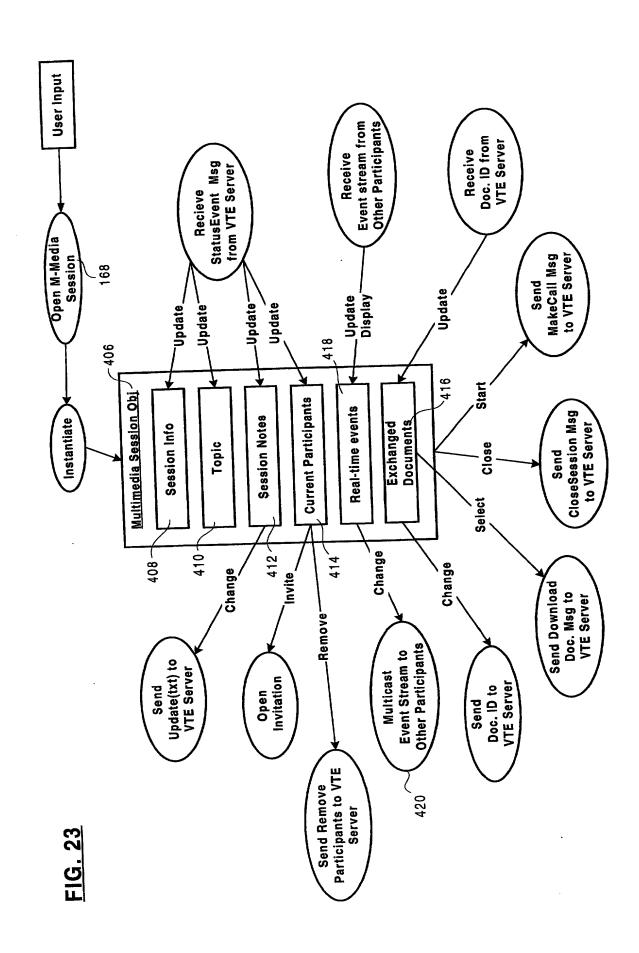


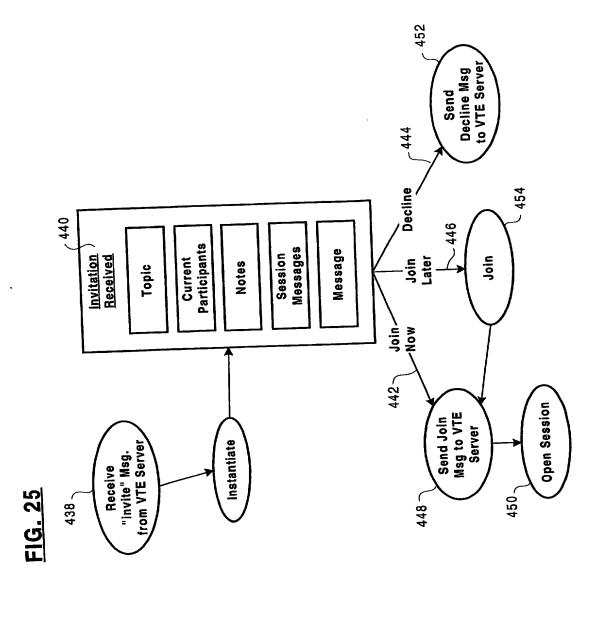
FIG. 20

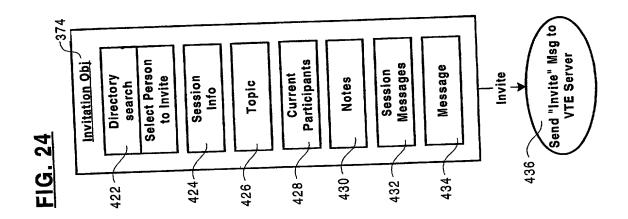












Conf. Bridge 528 | Insert Routing Code O Insert DN(B) SS (a) -536 -508 VSP | DOO | MakeCall(DN(A), DN(B), Session ID) | DN(B), Session ID) | DN(B), CIC=E-ISUP(A)] ISUP-IAM [Parity Code, CIC=E-ISUP(B)] 538 | ISUP-IAM [DN=DN(B); CIC=E-ISUP(B)] CallCreated (A,B) C 554 506 O Translate Session ID ᇲ 546 Status Event (Call, A.B) - 552 Status Event (Call, A, B) StatusEvent (Call, A,B) 7534 **ISUP-ACM** ISUP-ANM 532 ISUP. ISUP-IAM 510 518 526 230 -556 -564 ر-560 (O E-ISUP O) **→** ISUP-ACM ISUP-ANM 540 550 544 ISUP-IAM [DN=DN(A)] **516** -524 SSP (Z) ISUP-ACM SUP-ANM SS S "Ring" -512 ISUP-ACM ISUP-ANM O Display Session SS S "Ring" 995/ 545 548 VTE Clientico SessionRequest (A, Session Type) O Display Session -514 568 - 520 VTE Client(B) Unitiate Session Answer Display Session CONVERSATION A,B 562 505[∠] VTE CIlent(A) Answer 500 558

FIG. 26 Set Up 2-Way Voice Communications Session

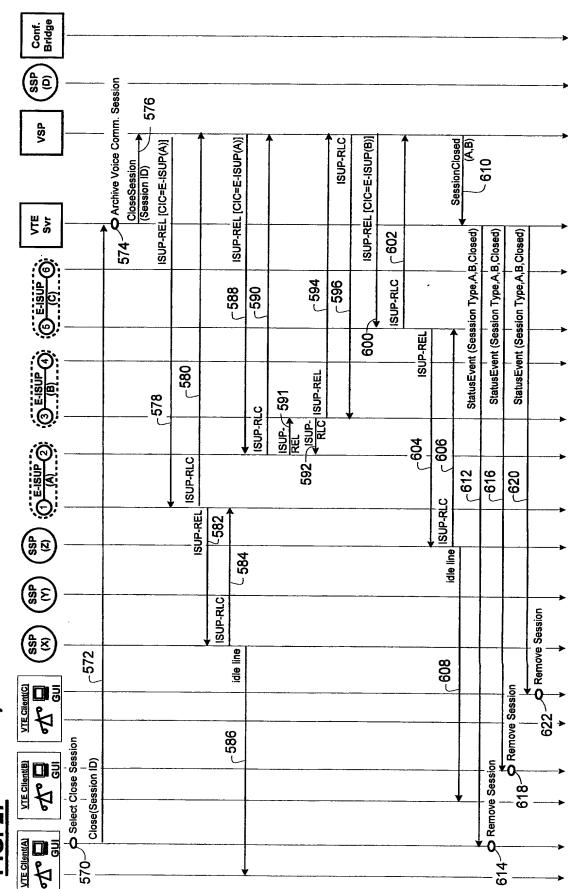


FIG. 27 Close 2-Way Voice Communications Session

650 Create Session Setup SS (a) NewSession [DN, Session ID] 658 Kill REL ISUP-RLC - 646 VSP AddLeg (C(DN) CIC=E-ISUP (A)] ISUP-IAM [DN=DN(CB); CIC=E-ISUP(A)] 626 Translate 635 VTE Translate Session ID 🔷 StatusEvent (C, "pending") StatusEvent (C, "pending") Invitation (A. Topic Message, Meeting Notes, Participants, Session ID) StatusEvent (C, "trying") StatusEvent (C, "trying") SUP-REL G E-ISUP ر 652 629 -656 653 662 (O EISUP (D) 099 SUP ISUP-REL **7655** ISUP-RLC ISUP-IAM 654 ISUP O E-ISUP O 636 638 -629 **627** -625 _631 634 AddParty (Session ID, C, Topic, Message, Meeting Notes) 632 A Display Invitation Join(Session ID) SS X O Display Message O Display Message 633 or Gu VTE Client(B) O Display Message Select Add Party O Display Message VTE Cijent(A) 624~ 637-

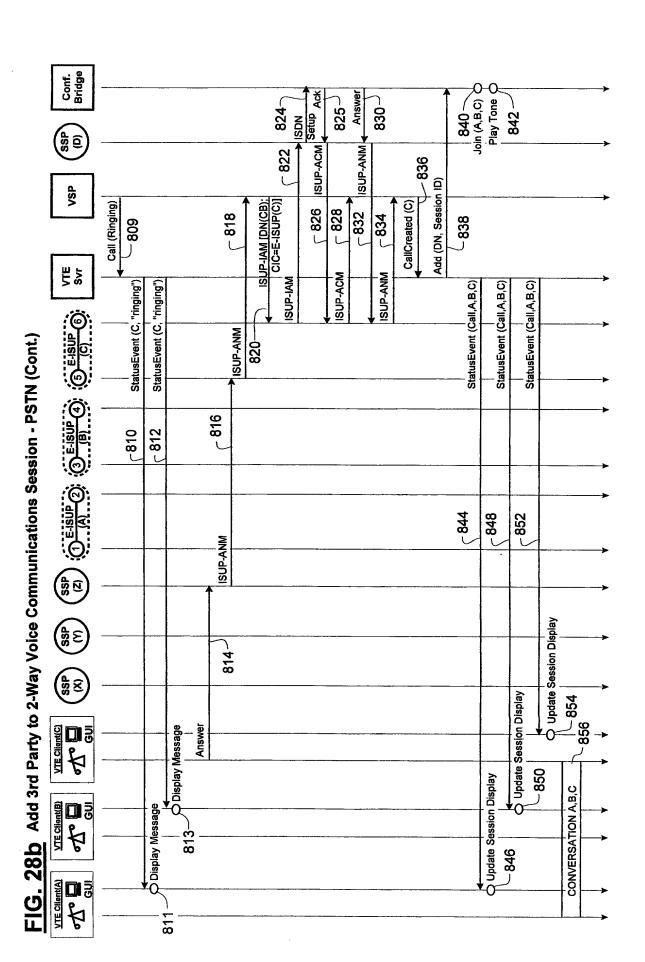
648

Add 3rd Party to 2-Way Voice Communications Session - PSTN FIG. 28

Conf. Bridge

9 Conf. Bridge Play Message O Setup Setup Answer Answer Join (A,B) Play Tone 802 $^{\leftarrow}$ 665 C 670 800 693 SSP (G) ISUP-ACM ★ NOP-ANM ★ ISUP-ACM ISUP-ANM Add (DN, Session ID) VSP 678 CallCreated (A) ISUP-IAM (DN=DN(C); CIC=E-ISUP-IAM [DN=DN(CB); CIC=E-ISUP(B)] 704 - CallCreated (B) 692 808 999 -672 ر 700 ر **706** VTE 804 ISUP-ACM **705** 989 ₩ 694 **674** 999 ISUP-IAM 686 ISUP-ACM ISUP-ANM ISUP-IAM **807** ISUP-ACM ISUP-ANM 7 805 ISUP-ACM SSP (Z) "Ring" SSP) (gg & VTE Clientico 803 VTE Clent(B)
GUI CONVERSATION A,B VTE Cilent(A)

Add 3rd Party to 2-Way Voice Communications Session - PSTN (Cont.) 28a

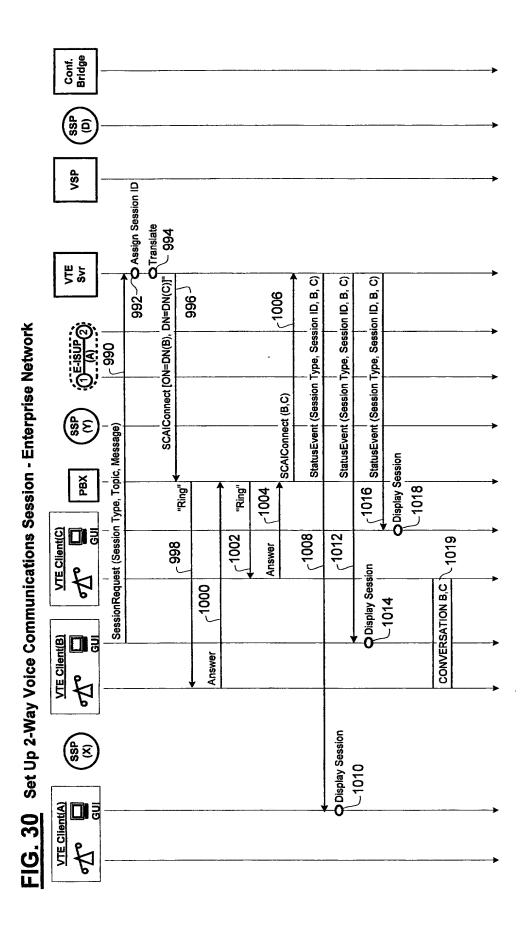


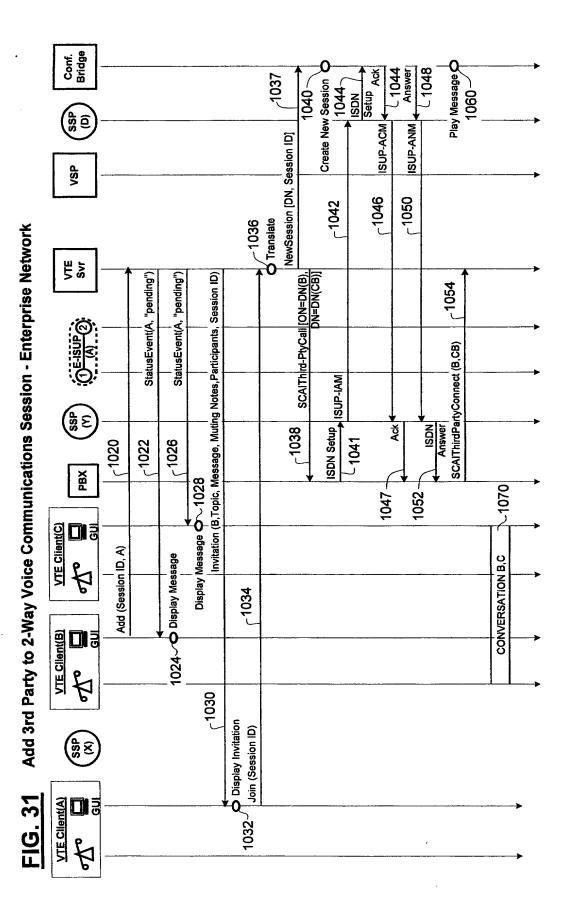
Conf. Bridge 948~√ Ack À 922 946 Release/ Release/ 924 SSP) ISUP-RLC ISUP-RLC 904 Archive Comm. Session VSP ISUP-REL [CIC=E-ISUP(A)] ISUP-REL [CIC=E-ISUP(A)] ISUP-REL [CIC=E-ISUP(B)] ISUP-REL [CIC=E-ISUP(B)] CloseSession (Session ID) 942 -930 VTE Svr G E-ISUP (G) 940 -920 918 J 919 € 928 944 938 ISUP-RLC 916 ISUP-REL ISUP-RLC ISUP-REL ا 308 906 ISUP-RLC ISUP-REL ISUP-RLC -932 934 ISUP-REL SSP Z 912 ISUP-RLC SSP SP 1910 ISUP-RLC idle line (SS X 006 idle line 936 VTE CHONGCI 1914 Select Close Session VIE CHENTED Close(Session ID) VTE Cliented 858

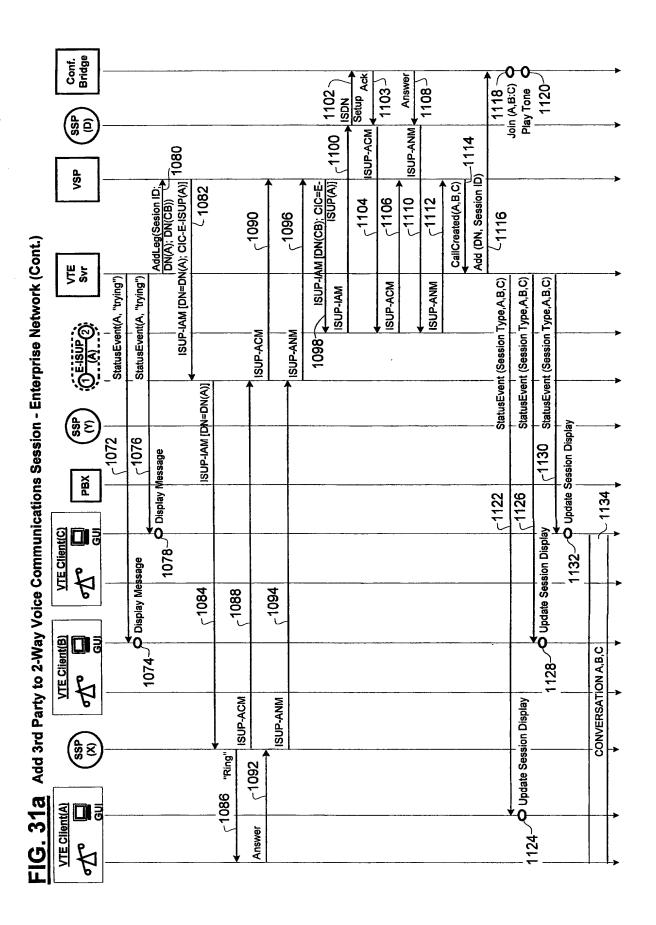
FIG. 29 Close 3-Way Voice Communications Session

Conf. Bridge ğ Release 970~ SSP (D) ISUP-RLC **-996** -962 VSP SessionClosed (Session ID) ISUP-REL [CIC=E-ISUP(C)] ISUP-REL [CIC=E-ISUP(C)] -963 -964 **952** Svr ISUP-RLC ISUP-REL StatusEvent (Session Type, Session ID, Closed) StatusEvent (Session Type, Session ID, Closed) StatusEvent (Session Type, Session ID, Closed) ISUP-RLC € 026 ISUP-REL 954 926 Close 3-Way Voice Communications Session (Cont.) ISUP-RLC idle line 976 - 980 984 SS S A Remove Session SS X **∫** 986 ∫ 928 A Remove Session VIE Clientic €982 A Remove Session VIE Clienté 626 VTE Client(A)

29a







StatusEvent (Session Type, Session ID, Closed) Status Event (Session Type, Session ID, Closed) StatusEvent (Session Type, Session ID, Closed) FIG. 32 Convert 3-Way IM Session to 3-Way Voice Communications Session (OE-ISUP Q) ر1136 1142 1146 1148 SSP (Z) SS X ConvertSession (Session ID, Session Type) A Remove Session \$ P VTE CITEDITICS) 71148 VTE Client(B) A Remove Session 1144

Conf. Bridge Create Session Play Message Answer ,1155 1192 1177 1182 1156 Setup SDN SS (C) ISUP-ANM ▲ NewSession (DN, SessionID) ISUP-ACM VSP 1140 Close IM Session MakeCall(A,B,C, CallCreated ISUP-IAM [DN=DN(A); CIC=E-ISUP(A)] ISUP-IAM [DN=DN(CB); CIC=E-ISUP(A)] 1152 C Translate 1178 71184 1138— C Translate VTE Svr 1188-71174 1180 1186 ISUP-IAM [DN(CB) 1170 c1172 71157 1164 ISUP-ACM ISUP-ACM → ISUP-ACM **→** ISUP-ANM ISUP-IAM C1162 **1168** 1158 ISUP-ACM ISUP-ANM • Remove Session ~1150 "Ring" ر1160 1166 VTE Clientida GUI Answer

Conf. Bridge 1230 Join A,B Play Tone 1214 ISDN Setup Ack Answer 1215 1220 1232 ر1228 SSP (D) ISUP-ANM ISUP-ACM VSP Add (DN, SessionID) ISUP-IAM [DN=DN(B); CIC=E-ISUP(B)] ISUP-IAM [DN=DN(CB); CIC=EISUP(B)] CallCreated (B, CB) 1216 -1222 1194 \$ <u>\</u> 1226-71202 ~1208 (O E-ISUP (O) ISUP-IAM [DN(CB)] (1212 **~1224** Convert 3-Way IM Session to 3-Way Voice Communications Session (Cont.) 1218 ISUP-ACM ISUP-ANM ISUP-ACM ISUP-IAM ISUP-ACM 7210 (O E-ISUP (Q) 1196ء ر1200 1206 SSP (Z) ISUP-ACM ISUP-ANM SS S "Ring" SSP) ر1198 -1204 VIE CIIONICI

Office
GUI -1234 VTE Client(B) Answer CONVERSATION A.B. 32a FIG. VTE Client(A)

Conf. Bridge Join A,B Play Tone Ack 1257 Answer 1262 1274 1276 1256-Setup SDN SS (D) ISUP-ACM ISUP-ANM 1272₇ 1254₂ VSP CallCreated (A,B,C) ISUP-IAM [DN(CB); CIC=E-ISUP(C)] ISUP-IAM [DN=DN(C);CIC=E-ISUP(C)] 1258₇ 1250₇ 1264₇ **1244**7 1260₇ 1268₇ 1236 YE Svr ISUP-ACM ISUP-ANM ISUP-IAM 1270-StatusEvent (Call, A, B, C) Status Event (Call, A, B, C) StatusEvent (Call, A, B, C) (G) E-ISUP (G) 1252 ISUP-ACM ISUP-ANM FIG. 32b Convert 3-Way IM Session to 3-Way Voice Communications Session (Cont.) ISUP-IAM ر1242 _~1248 1238 1278₇ 1286₇ 1282₇ ISUP-ACM ISUP-ANM SSP (Z) "Ring" SSP S ~1240 ر1246 O Display Session SSP SPP ~1290 VTE Clientic)

GUI O Display Session Answer CONVERSATION A,B,C VTE Clientis O Display Session VTE Client(A)

FIG. 33 Set-up 2-way Multi-Media Session

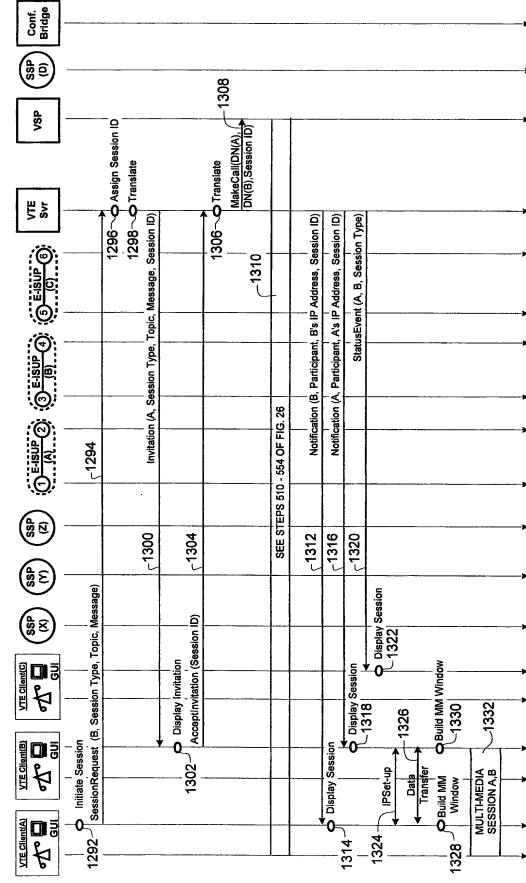


FIG. 34 Add 3rd Party to Multi-media Session

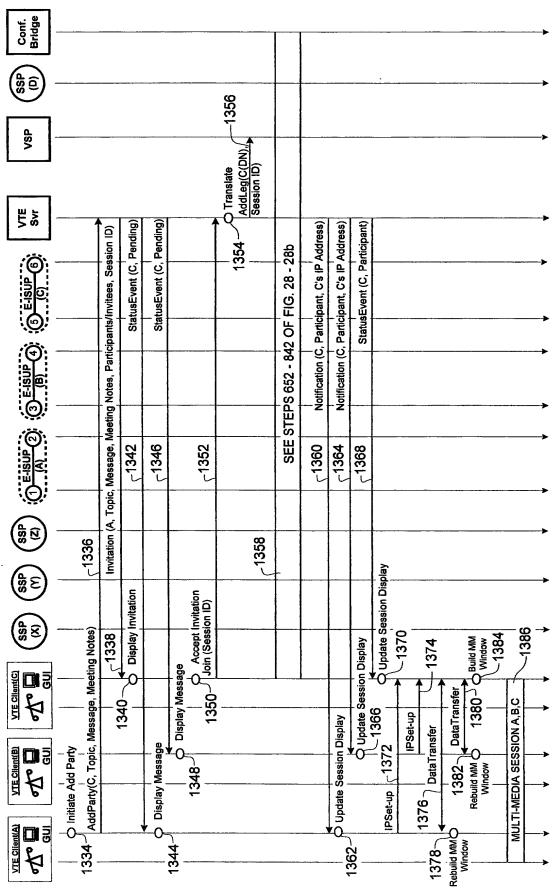
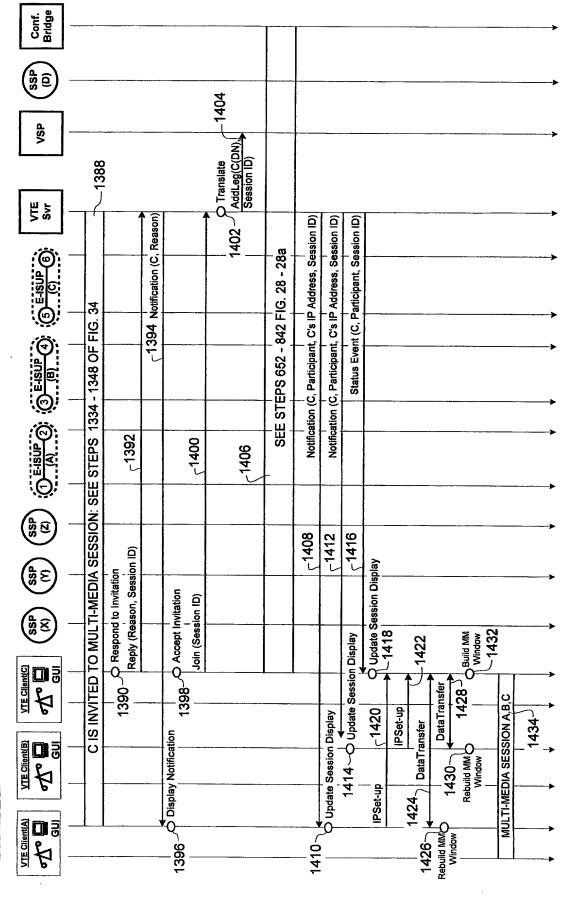
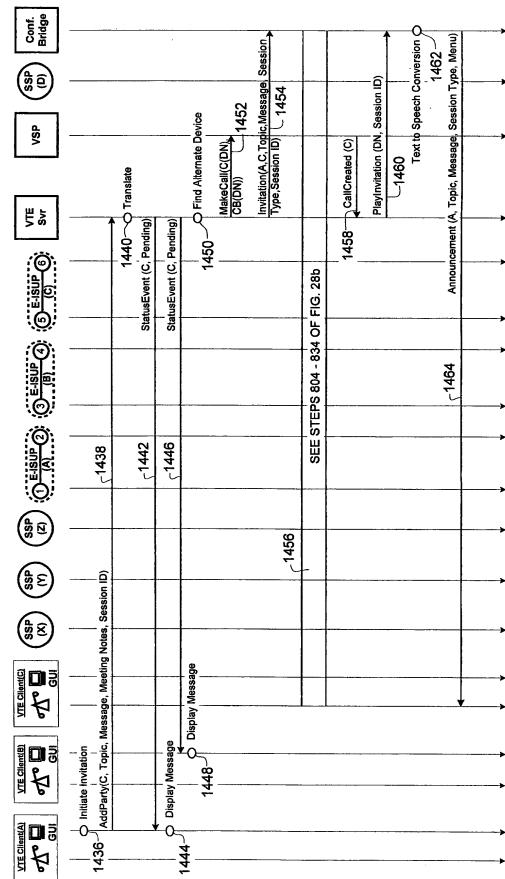


FIG. 35 Add 3rd Party to Multi-media Session (Deferred Acceptance)



Add 3rd Party to Multi-media Session (3rd Party Not Logged to VTE) FIG. 36



LogonInstruction Accept (Session ID) SSP) VSP CallCreated (A,B,C) 14727 SY. SessionInfo. (Topic, Meeting Notes, Participants/Invitees, Session ID Status Event (C, Participant, Session ID) 1476-Notification (C, Participant, C's IP Address) Notification (C, Participant, C's IP Address) (G E-ISUP (G) Add 3rd Party to Multi-media Session (3rd Party Not Logged on to VTE) (Cont.) SEE STEPS 652 - 842 OF FIG. 28 - 28b (O E-ISUP (C) ر1494 (O E-ISUP Q) 1478 ر1480 ر1470 1468 -1484 SSP (Z) 1474 Login (User Name, Password) ر1490 Update Session Display SSP Build Session Window SSP SPP Build MM Window 1510 -1492 -1512 O Update Session Display 1500 VIE CHANGO Accept DataTransfer 1506 1496 MULTI-MEDIA SESSION A,B,C 1498 IPSet-up O Update Session Display DataTransfer VTE Client(B) Rebuild MIM Window 1508 1486 FIG. 36a IPSet-up VTE Client(A) Rebuild MM Window 1482 1502

Conf. Bridge